

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Check if Relation is a Function (12 pts classwork, version 30)

1. A **relation** is expressed as a list of  $(x, y)$  ordered pairs.

$(5, 9)$   $(4, 1)$   $(4, 2)$   $(2, 3)$   $(5, 9)$

- Is  $y$  a function of  $x$ ? Why or why not?

no

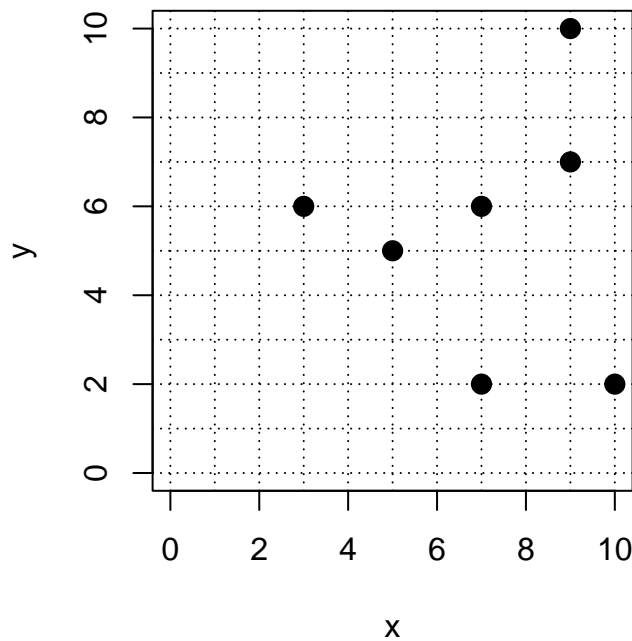
- Is  $x$  a function of  $y$ ? Why or why not?

yes

- One-to-one function? Why or why not?

no

2. A relation is shown as points on a graph.



- Is  $y$  a function of  $x$ ? Why or why not?

no

- Is  $x$  a function of  $y$ ? Why or why not?

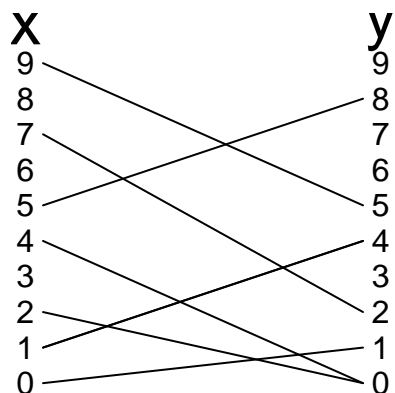
no

- One-to-one function? Why or why not?

no

### Check if Relation is a Function (version 30)

3. A relation is shown with segments connecting elements of two sets.



- Is  $y$  a function of  $x$ ? Why or why not?

yes

- Is  $x$  a function of  $y$ ? Why or why not?

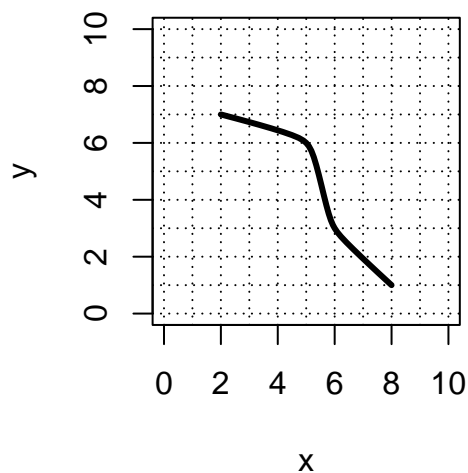
no

- One-to-one function? Why or why not?

no

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4. A relation is shown as a curve plotted on an  $x, y$  plane.



- Is  $y$  a function of  $x$ ? Why or why not?

yes

- Is  $x$  a function of  $y$ ? Why or why not?

yes

- One-to-one function? Why or why not?

yes